



梁海志 硕士生导师

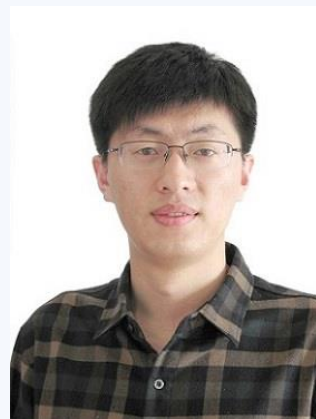
职 称: 讲师

研究方向: 海洋工程、结构防护

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个人简介

长期致力于海洋工程深水浮式结构和海洋清洁能源装备的研发工作, 包括波浪能发电、漂浮式风机和漂浮式光伏。同时, 积极发展人防工程结构新型防护方法, 重点关注重要经济目标防护升级和防护设备的研发工作。发表高水平学术论文 20 余篇, 授权专利/软件著作权 10 余项, 主/参编行业或团体标准 3 部, 主持山东省自然科学基金 1 项, 承担多项横向课题。

学习经历

- 2003.09-2007.07, 大连理工大学, 工程力学专业, 工学学士
- 2007.09-2015.07, 大连理工大学, 工程力学专业, 工学博士

工作经历

- 2016.01 - , 青岛理工大学土木工程学院, 讲师

教科研项目

- 2016.11-2018.12, 山东省自然科学基金-青年基金, 主持
- 2023.01- 2023-12, 国家自然科学基金委员会, 专项项目 52242804, 第四届土木工程青年学术研讨会-2023, 10 万元, 参与
- 2022-01 - 2025-12, 国家自然科学基金委员会, 联合基金项目 U2106221, 严酷海洋环境下钢筋混凝土性能自主感知与耐蚀性主动提升机制, 264 万元, 参与
- 2022-01 - 2025-12, 国家自然科学基金委员会, 面上项目 42177153, 基于 CPTu 和波速表征的水

合物储层开采条件下物理力学特性演化机制, 57 万元, 参与

- 2021-01 - 2024-12, 国家自然科学基金委员会, 面上项目 42072310, 海岸工程地质环境液化场地高桩码头地震安全评价方法, 61 万元, 参与
- 2020-01 - 2023-12-31, 国家自然科学基金委员会, 面上项目 51979030, 深水系泊系统主动式等效截断模型试验方法研究, 60 万元, 参与

学术成果

代表性著作、论文:

- [1] Wang, X., Liang, H., Qiao, D., Yan, J., Ning, D., & Ou, J. (2023). Hardware-In-the-Loop test for the optimal damping identification of oscillating buoy wave energy converters. *Ocean Engineering*, 287. <https://doi.org/10.1016/j.oceaneng.2023.115730>
- [2] Liang, H., Qiao, D., Wang, X., Zhi, G., Yan, J., Ning, D., & Ou, J. (2023). Energy capture optimization of heave oscillating buoy wave energy converter based on model predictive control. *Ocean Engineering*, 268. <https://doi.org/10.1016/j.oceaneng.2022.113402>
- [3] Liu, K., Liang, H., Ou, J., Ye, J., & Wang, D. (2022). Experimental Investigation of the Performance of a Tuned Heave Plate Energy Harvesting System for a Semi-Submersible Platform. *Journal of Marine Science and Engineering*, 10(1). <https://doi.org/10.3390/jmse10010045>
- [4] Qiao, D., Zhi, G., Liang, H., Ning, D., Yan, J., & Li, B. (2021). Scaling Orchestration in Physical Model Test of Oscillating Buoy Wave Energy Converter. In *Frontiers in Marine Science* (Vol. 8). Frontiers Media S.A. <https://doi.org/10.3389/fmars.2021.627453>
- [5] Qiao, D., Feng, C., Ning, D., Wang, C., Liang, H., & Li, B. (2020). Dynamic Response Analysis of Jacket Platform Integrated With Oscillating Water Column Device. *Frontiers in Energy Research*, 8. <https://doi.org/10.3389/fenrg.2020.00042>
- [6] Qiao, D., Feng, C., Yan, J., Liang, H., Ning, D., & Li, B. (2020a). Numerical simulation and experimental analysis of wave interaction with a porous plate. *Ocean Engineering*, 218. <https://doi.org/10.1016/j.oceaneng.2020.108106>
- [7] Qiao, D., Liang, H., Tang, W., Ning, D., Li, B., & Ou, J. (2020). Motion tracking control of actuator in the active-truncated model test of deep-water mooring system. *Applied Ocean Research*, 105.

<https://doi.org/10.1016/j.apor.2020.102397>

- [8] Qiao, D. sheng, Guan, B., Liang, H. zhi, Ning, D. zhi, Li, B. bin, & Ou, J. ping. (2020). An Improved Method of Predicting Drag Anchor Trajectory Based on the Finite Element Analyses of Holding Capacity. *China Ocean Engineering*, 34(1), 1–9. <https://doi.org/10.1007/s13344-020-0001-0>
- [9] Li, L., & Liang, H. (2018). Semiactive Control of Structural Nonlinear Vibration Considering the MR Damper Model. *Journal of Aerospace Engineering*, 31(6), 04018095. [https://doi.org/10.1061/\(asce\)as.1943-5525.0000902](https://doi.org/10.1061/(asce)as.1943-5525.0000902)
- [10] Liang, H. zhi, Liu, K., Li, L. yu, & Ou, J. ping. (2018). Dynamic Performance Analysis of the Tuned Heave Plate System for Semi-Submersible Platform. *China Ocean Engineering*, 32(4), 422–430. <https://doi.org/10.1007/s13344-018-0044-7>
- [11] Liang, H., Li, L., & Ou, J. (2015). Coupled control of the horizontal and vertical plane motions of a semi-submersible platform by a dynamic positioning system. In *Schmerz* (Vol. 29, Issue 6, pp. 776–786). Springer Verlag. <https://doi.org/10.1007/s00773-015-0322-5>
- [12] Li, L., Liang, H. (2018). Semiactive Control of Structural Nonlinear Vibration Considering the MR Damper Model. *Journal of Aerospace Engineering*, 31 (6). [https://doi.org/10.1061/\(ASCE\)AS.1943-5525.0000902](https://doi.org/10.1061/(ASCE)AS.1943-5525.0000902)
- [13] 梁海志; 乔东生; 李芦钰; 张纪刚; 欧进萍 ; 基于遗传算法的半潜式平台动力定位系统动态约束可行域推力分配法, *船舶力学*, 2018, 22(10): 1224-1232
- [14] 鞠鹏, 刘德进, 冯甲鑫, 梁海志, 闫俊, 乔东生. 新型搭岸式单桩风机安装船作业性能数值研究, *中国造船*, 2023,.64(2): 214-225

代表性专利:

- [1] 梁海志; 张君博; 张纪刚; 欧进萍; 乔东生; 李芦钰; 汲能-减振深海风力发电浮式半潜平台 [P]. 中国发明专利, ZL201811532612X
- [2] 欧进萍; 梁海志; 乔东生; 深水动力定位半潜式平台调谐垂荡板减摇减荡控制系统 [P]. 中国发明专利, ZL201520278343.4 (专利)
- [3] 张纪刚; 马哲昊; 梁海志; 郑永征; 张春巍; 付为; 颜磊; Multi-Seismic-Proof Self-Resetting Assembled Type Framework-Swing Wall Energy Consumption Structure, 2022-1-19